2

AMENDMENTS TO THE CLAIMS

Please replace the claims, including all prior versions, with the listing of claims below.

**Listing of Claims:** 

1. (currently amended) A method for electrodynamically braking a rail vehicle which is

equipped with a drive-(6), whereincomprising regulating the acceleration-(a<sub>act</sub>) of the rail vehicle

is regulated as a function of its velocity (v), characterized in that wherein the acceleration (a<sub>act</sub>) is

regulated to a set point acceleration (a<sub>step</sub>) which is proportional to the velocity (v).

2. (currently amended) The method as claimed in claim 1, characterized in that wherein the

set point acceleration  $(a_{step})$  for individual sections is proportional to the velocity (v).

3. (currently amended) The method as claimed in claim 1, characterized in that in order

wherein to control the acceleration  $(a_{act})$  indirectly, the torque  $(M_R)$  of the drive (6) is regulated.

4. (currently amended) The method as claimed in claim 3, characterized in that a PI

controller is used to control the torque  $(M_R)$ .

5. (currently amended) The method as claimed in claim 3, characterized in that wherein

when the torque  $(M_R)$  is controlled it is kept within predefined limits.

6. (currently amended) The method as claimed in claim 3, characterized in that wherein an

additional torque (M<sub>V</sub>) which is proportional to the set point acceleration (a<sub>step</sub>) is added to the

torque (M<sub>R</sub>), and in that thea proportionality constant is dependent on vehicle values.

7. (Original) The method as claimed in claim 6,

<del>characterized in thatwherein</del> the vehicle values are <del>thea</del> vehicle mass, <del>the</del> a transmission ratio

and/or the diameter of the wheels.

- 8. (currently amended) The method as claimed in claim 1, characterized in that wherein the velocity (v) of the rail vehicle is determined from rotational speeds (n) of the drive (6) and/or of an axle.
- 9. (currently amended) The method as claimed in claim 1, characterized in that wherein the acceleration-(a<sub>act</sub>) is determined as a first derivative of the velocity-(v).

U.S. Application No.: 10/511,392 Attorney Docket No.: 449122077600